Revision: 7a Date: 10/09/2009

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION WASHINGTON, D.C.

MASTER MINIMUM EQUIPMENT LIST

TWIN COMMANDER AIRCRAFT 680T/680V/680W/681/690/690A 690B/690C/690D/695/695A/695B

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Preamble	Updated to reflect revised Page Number or	nly.		
Guidelines (O & M)	Updated to reflect revised Page Numbers of	only.		
ATA 30-12	Revised SYSTEM ITEM title by deleting "Enadding "Generator Inlet Deicer Installation", Revision 7. No change in relief.			
ATA 46-1	Added "1. Electronic Flight Bag Systems (EITEM column. No change in relief.	FBs), (Continued)", to the	ne SYSTEM	

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DEFINITIONS					

The Definitions must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter 25, entitled "Policy Concerning MMEL Definitions", and from current FAA MMEL Policy Letter 70, entitled "Definitions Required in MELs".

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PREAMBLE						

The applicable Preamble must be inserted here in each Minimum Equipment List (MEL) from current FAA MMEL Policy Letter 34, entitled "MMEL and MEL PREAMBLE", or from current FAA Policy Letter 36, entitled "14 CFR Part 91 MEL Approval & Preamble", for Part 91 MEL approvals.

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Guidelines for (O) & (M) Procedures					

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for the following items. These procedures must be established by the operator. The following guidelines are to help establish these required procedures:

21-1	(M)	Maintenance procedure to ensure no fuel leak or electrical/mechanical fault exists that may cause additional damage.
21-4	(M)	Maintenance procedure to ensure that the Dump Valve is secured in the OPEN position.
22-1	(M)	Maintenance procedure to ensure no electrical or mechanical fault exists that will have an adverse effect on any flight control function.
22-2	(M)	Maintenance procedure to ensure no electrical or mechanical fault exists that will have an adverse effect on any flight control function.
23-4-A	(O)	Operations procedure to ensure PA System is not required by 14 CFR and passengers are appropriately briefed.
23-7	(O)	Operations procedure to ensure SATCOM Voice or Data Link operates normally, alternate procedures are established and used, and SATCOM coverage is available over the intended route of flight.
23-8	(O)	Operations procedure to establish and use alternate procedures.
23-8-A	(O)	Operations procedure to establish and use alternate procedures.
25-2-A	(M)	Maintenance procedure to ensure Seat is secured in the FULL UPRIGHT position.
25-2-B	(O)	Operations procedure to ensure baggage is not stowed under Seat with inoperative Restraining Bar, Seat is properly placarded, and flight crew is alerted.
25-2-C-1	(M)	Maintenance procedure to ensure Seat is secured in the FULL UPRIGHT position if an Armrest is missing.

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	Guidelines for (O) & (M) Procedures										
25-5-B	(M)	Maintenance procedure to ensure inoperative System is deactivated. Applies to both provisos.									
25-7-A	(O)	Operations procedure to ensure AED is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.									
25-7-B	(O)	Operations procedure to ensure EM that will identify it as a Unit that can serviceable Unit.									
25-7-C	Operations procedure to ensure FAK is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.										
25-8	(M)		Maintenance procedure to ensure acceptable cargo loading limits from an approved source is maintained.								
27-3	(M)	Maintenance procedure to ensure the Trim will not affect the operation of the controls.									
31-2	(O)	Operations procedure for recording	flight time.								
32-1	(O)	Operations procedure to prevent moor parked.	ovement of the aircraft w	hen stopped							
33-3	(O)	Operations procedure to ensure PA used to notify passengers when Sig	•	•							
33-3-A	(O)	Operations procedure to ensure that passenger briefings.	t alternate procedures a	re used for							
34-19	(O)	Operations procedure to ensure any INS (IRU) Stabilized Compass Systems		yro or							
	(O)	Operations procedure to ensure two operate normally, and the airplane is independent navigation capability.		ems							
	(O)	Operations procedure to ensure at I Gyro Systems are installed and ope		ctional							

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34-20-A-1	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-A-1-a	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-A-1-d	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
	(O)	Operations procedure to ensure all established and used and advisory 14 CFR.	<u>-</u>	l by						
34-20-A-1-e	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
	(O)	Operations procedure to ensure all established and used and Windshe System (Predictive) operates norm	ear Detection and Avoida	nce						
34-20-A-2	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-B-1	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-B-1-a	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-B-1-d	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
	(O)	Operations procedure to ensure all established and used and advisory 14 CFR.		l by						
34-20-B-1-e	(O)	Operations procedure to ensure all established and used.	ernate procedures are							
34-20-C-1	(O)	Operations procedure to ensure all established and used.	ernate procedures are							

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	Guidelines for (O) & (M) Procedures										
34-21	Maintenance procedure to ensure System is deactivated and SECURED. Applies to both provisos.										
34-22	(M)	Maintenance procedure to ensure S SECURED. Applies to both provisor		t							
34-22-B	Operations procedure to ensure TA Visual Display and Audio Functions are operative, TA ONLY Mode is selected by the crew, and enroute or approach procedures do not require use of the RA Display System.										
34-22-C	(O)	Operations procedure to ensure RA Functions are operative, and enroute not require use of the TA Display Sy	e or approach procedure								
34-25-A	(O)	Operations procedure to ensure curs status and suitability of navigation fa Approach Navigation Radios are ma	acilities to be used are ve	erified, and							
34-26-A	(O)	Operations procedure to ensure curstatus and suitability of navigation fa Approach Navigation Radios are ma	acilities to be used are ve	erified, and							
34-31	(O)	Operations procedure to ensure Autopilot with Altitude Hold is operative and enroute operations do not require use of the Altitude Alerting System.									
	(O)	Operations procedure to ensure aircraft is operated with a Second in Command and enroute operations do not require use of the Altitude Alerting System.									
34-32-A-1	(O)	Operations procedure to ensure alte and used.	rnate procedures are es	tablished							
(O) Operations procedure to ensure alternate procedures are established and used and Windshear Detection and Avoidance System (Predict operates normally.											
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34-32-A-2	(O)	Operations procedure to ensure alternations and used.	Operations procedure to ensure alternate procedures are established and used.							
	(O)	Operations procedure to ensure alto and used and Windshear Warning a (Reactive) operates normally.								
34-32-B-1	(O)	Operations procedure to ensure alternations and used.	ernate procedures are es	stablished						
34-32-B-2	(O)	Operations procedure to ensure alternations and used.	Operations procedure to ensure alternate procedures are established and used.							
38-1	(M)	• • • • • • • • • • • • • • • • • • •	Maintenance procedure to ensure associated Components are deactivated or isolated and System Components do not have leaks.							
46-1-A	(O)	Operations procedure to ensure alto and used.	ernate procedures are es	stablished						
46-1-B	(O)	Operations procedure to ensure alto and used.	ernate procedures are es	stablished						
46-1-C	(O)	Operations procedure to ensure alternative and used.	ernate procedures are es	stablished						
46-1-D	(M)	Maintenance procedure to ensure a secured by an alternate means or re								
	(O)	Operations procedure to ensure alto and used.	ernate procedures are es	stablished						
	(M)	Maintenance procedure to ensure a secured by an alternate means or re								

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ITEN					MBER REQUIRED FOR DISPATCH				
					4. REMARKS AND EXCEPTIONS				
21	AIR CONDITIONING								
1.	Combustion Heater	С	1	0	(M)				
2.	Defog Blower	С	1	0					
3.	Pressurization Controller	С	1	0	May be inoperative for unpressurized flight.				
4.	Safety Valve	С	1	0	(M) May be inoperative provided: a) Airplane remains unpressurized, and b) Dump Valve is blocked OPEN.				
5.	Outflow Valve	С	1	0	May be inoperative provided: a) Airplane remains unpressurized, and b) Dump Valve is OPEN.				
6.	Altitude Warning	С	1	0	May be inoperative for unpressurized flight.				
		С	1	0	May be inoperative for pressurized flight at or below 10,000 feet MSL.				
7.	Cabin Rate Of Climb	С	1	0	May be inoperative for unpressurized flight.				
		С	1	0	May be inoperative for pressurized flight provided Differential Pressure/Cabin Altitude Indicator is operative.				
8.	Differential Pressure/Cabin Altitude Indicator	С	1	0	May be inoperative for unpressurized flight.				
9.	Baggage Compartment Heater	С	1	0					

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22 AUTOPILOT									
Autopilot System	С	_	0	(M) May be inoperative provided					
				operations do not require its use.					
				' '					
				NOTE: For RVSM operations, the					
				Altitude Hold Function must be					
				operative.					
				·					
2. Yaw Damper	С	1	0	(M)					
·									
3. Autopilot Disconnect	С	2	1	One may be inoperative provided:					
Functions				a) Autopilot is not used below					
(Quick Release				1,500 feet AGL, and					
Controls)				b) Approach minimums do not					
·				require the use of the Autopilot.					
	В	2	0	May be inoperative provided Autopilot					
				is not used.					

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0.5	DEPARTMENT OF TRAI	NSPUR	TATIO	V	MASTER MINIMUM EQUIPMENT LIST
FED	ERAL AVIATION ADMINI	WASTER WINNING EQUI WEIT EIGT			
AIR	CRAFT: TWIN COMMAI		REVISION NO: 7 PAGE NO:		
	680T/680V/680				DATE 00/00/0000
1 9	690B/690C/690 YSTEM,		IR CAT		DATE: 09/09/2009 23-1
	QUENCE NUMBERS &	INCI A			INSTALLED
ITE					MBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
23	COMMUNICATIONS				
1.	Communications System (VHF And UHF)	D	-	-	Any in excess of those required by 14 CFR may be inoperative provided it is not powered by any Emergency Power Source and not required for emergency procedures.
2.	Cockpit Speaker	С	2	0	May be inoperative provided two operative Headsets are available to the flight crew.
3.	Audio Amplifier	С	2	0	May be inoperative provided two operative Headsets are available to the flight crew.
4.	Passenger Address System (PA)				
A)	Passenger Configuration	С	1	0	 (O) May be inoperative provided: a) PA not required by 14 CFR, and b) Alternate, normal and emergency procedures, and/or operating restrictions are established and used.
B)	Cargo Configuration	D	1	0	NOTE: Any station function(s) that operate normally may be used. May be inoperative provided procedures do not require its use.

U.S. DEPARTMENT OF TRANSPORTATION									
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION									
AIRCRAFT: TWIN COMMA									
680T/680V/680W/681/690/690A 690B/690C/690D/695/695A/695B DATE: 09/09/2009 23-2									
690B/690C/690D/695/695A/695B DATE: 09/09/2009 23-2 1. SYSTEM, REPAIR CATEGORY									
SEQUENCE NUMBERS &		2. NU		NSTALLED					
ITEM			3. NU	MBER REQUIRED FOR DISPATCH					
23 COMMUNICATIONS	<u> </u>		<u> </u>	4. REMARKS AND EXCEPTIONS					
23 COMMUNICATIONS									
5. Cockpit Voice Recorder (CVR)									
A) For Air Carrier And Commercial Operators									
1) With Flight Data Recorder (FDR) Installed	A	1	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally, and b) Repairs are made within three flight days.					
Without Flight Data Recorder (FDR) Installed	А	1	0	May be inoperative provided repairs are made within three flight days.					
B) For Operators Other Than Air Carriers And Commercial Operators	A	1	0	May be inoperative provided repairs are made in accordance with applicable sections of 14 CFR.					
6. Boom Microphones									
A) Cockpit Voice Recorder With Flight Data Recorder Installed									
1) Cockpit Voice Recorder Equipped To Record Boom Microphone Per 14 CFR 135.151(d)	A	-	0	May be inoperative provided: a) Flight Data Recorder (FDR) operates normally, and b) Repairs are made within three flight days.					
2) Cockpit Voice *** Recorder Not Equipped To Record Boom Microphone	D	-	0	Any in excess of those required by 14 CFR may be inoperative.					
				(Continued)					

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U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST									
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AIR	CRAFT: TWIN COMMAN		_		REVISION NO: 7 PAGE NO:				
	680T/680V/680		DATE: 00/00/2000						
1 9	690B/690C/690I YSTEM,		IR CAT		DATE: 09/09/2009 23-3				
	QUENCE NUMBERS &	INLIA			NSTALLED				
ITE					MBER REQUIRED FOR DISPATCH				
					4. REMARKS AND EXCEPTIONS				
23	COMMUNICATIONS								
6.	Boom Microphones (Continued)								
B)	Cockpit Voice Recorder Without Flight Data Recorder Installed								
1)	Cockpit Voice Recorder Equipped To Record Boom Microphone Per 14 CFR 135.151(d)	Α	-	0	May be inoperative provided repairs are made within three flight days.				
2)	Cockpit Voice Recorder Not Equipped To Record Boom Microphones	D	-	0	Any in excess of those required by 14 CFR may be inoperative.				
7.	High Frequency (HF) Communication System	D	-	-	Any in excess of those required by 14 CFR may be inoperative.				
		C	-	1	 (O) May be inoperative while conducting operations that require two LRCS provided: a) SATCOM Voice or Data Link operates normally, b) Alternate procedures are established and used, c) SATCOM coverage is available over the intended route of flight, and d) If INMARSAT Codes are not available while using SATCOM Voice prior coordination with the appropriate ATS facility is required. (Continued) 				

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FEDERAL AVIATION ADMINISTRATION										
AIR	CRAFT: TWIN COMMAN		_		REVISION NO: 7	PAGE NO:				
	680T/680V/680	W/681/	690/690	DΑ						
690B/690C/690D/695/695A/695B DATE: 09/09/2009 23-4										
1. S	YSTEM,	REPA	IR CAT	EGOR'	Y					
SEC	UENCE NUMBERS &		2. NU	MBER I	NSTALLED					
ITEN	Л			3. NU	MBER REQUIRED FOR DISF	PATCH				
					4. REMARKS AND EXCEPT					
23	COMMUNICATIONS									
23	COMMUNICATIONS									
7.	High Fraguency (HE)									
/.	High Frequency (HF) Communication									
	System (Continued)									
	(Continued)									
					NOTE CATOONS (
					NOTE: SATCOM is to be us	•				
					a backup to normal					
					communications unl					
					otherwise authorized					
					appropriate ATS fac	ilities.				
8.	Selective Call Systems	С	-	0	(O) May be inoperative prov					
	(SELCAL)				alternate procedures are est	ablished				
					and used.					
		D	-	0	May be inoperative provided					
					procedures do not require its	s use.				
A)	Channels	С	_	0	(O) May be inoperative prov	ided				
,					alternate procedures are est					
					and used.					
		D	_	0	May be inoperative provided					
					procedures do not require its					
					procedures do not require its	3 USC.				

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FEDERAL AVIATION ADMIN				DEVICIONINO, 7 DAGE NO.						
AIRCRAFT: TWIN COMMA		_		REVISION NO: 7 PAGE NO:						
680T/680V/680W/681/690/690A 690B/690C/690D/695/695A/695B DATE: 09/09/2009 24-1										
1. SYSTEM, SEQUENCE NUMBERS &	KEFA			INSTALLED						
ITEM		2. 110		IMBER REQUIRED FOR DISPATCH						
			3. 110	4. REMARKS AND EXCEPTIONS						
O4 FLECTRICAL				4. KEWAKKS AND EXCEPTIONS						
24 ELECTRICAL										
1. Batteries	В	2	1	One Battery may be inoperative for						
				VFR operations provided: a) A GPU is used for starting, and						
				b) The inoperative Battery is						
				disconnected at the Battery						
				Terminal and the Cable is						
				secured.						
2. D.C. Ammeter/	В	2	1	One may be inoperative for day VFR						
Voltmeter		_	'	operations provided the opposite D.C.						
Tommoto:				Ammeter/Voltmeter is operative.						
3. A.C. Volts Annunciator	В	1	0	May be inoperative for day and night						
				VFR operations provided both Inverters						
				are operative.						
4. Inverters	В	2	1	One may be inoperative for day VFR.						
4. IIIVerters	В	_	'	One may be moperative for day VFK.						
5. Battery Overheat	С	2	0	May be inoperative for Lead Acid						
Warning System				Batteries.						

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AIRCRAFT: TWIN CO	DMMANDER A	AIRCRA		REVISION NO: 7 PAGE NO:					
	0V/680W/681/		_						
)C/690D/695/6			DATE: 09/09/2009 25-1					
1. SYSTEM, REPAIR CATEGORY SEQUENCE NUMBERS & 2. NUMBER INSTALLED									
ITEM	3 α	2. NO		MBER REQUIRED FOR DISPATCH					
112111			0.110	4. REMARKS AND EXCEPTIONS					
25 EQUIPMENT/ FURNISHINGS									
Cockpit Shoulder Harness	В	2	1	Right side may be inoperative provided Seat remains unoccupied.					
2. Passenger Seat(s) D	-	-	May be inoperative provided: a) Seat does not block an Emergency Exit, b) Seat does not restrict any passenger from access to the main aircraft aisle, and c) Affected Seat(s) are blocked and placarded "DO NOT OCCUPY".					
				NOTE 1: A Seat with an inoperative Seat Belt is considered inoperative.					
				NOTE 2: Affected Seat(s) may include the Seat(s) behind and/or adjacent Seats.					
A) Recline Mechanis	m D	-	-	(M) May be inoperative and Seat occupied provided Seat is secured in the FULL UPRIGHT position.					
	D	-	-	May be inoperative and Seat occupied provided Seat Back is immovable in FULL UPRIGHT position.					
				(Continued)					

U.S.	U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST										
	ERAL AVIATION ADMINICRAFT: TWIN COMMAN	NDER A	IRCRA		REVISION NO: 7 PAGE NO:						
1 0	680T/680V/680 690B/690C/690	DATE: 09/09/2009 25-2									
SEC	YSTEM, DUENCE NUMBERS &	REPA	IR CAT 2. NU	MBER I	INSTALLED						
ITEN	Л			3. NU	JMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS						
25	EQUIPMENT/ FURNISHINGS										
2.	Passenger Seat(s) (Continued)										
B)	Underseat Baggage Restraining Bars	С	-	-	 (O) May be inoperative provided: a) Baggage is not stowed under Seat with inoperative Restraining Bar, b) Associated Seat is placarded "DO NOT STOW BAGGAGE UNDER THIS SEAT", and c) Procedures are established to alert Cabin Crew of inoperative Restraining Bar. 						
C)	Armrest										
1)	Armrest With Recline Mechanism	D	-	-	 (M) May be inoperative or missing and Seat occupied provided: a) Armrest does not block an Emergency Exit, b) Armrest does not restrict any passenger from access to the Main Aircraft Aisle, and c) If Armrest is missing, Seat is secured in the FULL UPRIGHT position. 						
2)	Armrest Without Recline Mechanism	D	-	-	May be inoperative or missing and Seat occupied provided: a) Armrest does not block an Emergency Exit, and b) Armrest does not restrict any passenger from access to the Main Aircraft Aisle.						
3.	"Fasten Seat Belt While Seated" Sign Or Placard	С	-	-	One or more Signs or Placards may be illegible or missing provided a legible Sign or Placard is visible from each occupied Passenger Seat.						

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	MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION									
	CRAFT: TWIN COMMA			FT	REVISION NO: 7 PAGE NO:					
	680T/680V/680		DATE: 09/09/2009 25-3							
690B/690C/690D/695/695A/695B DATE: 09/09/2009 25-3 1. SYSTEM, REPAIR CATEGORY										
SEC	UENCE NUMBERS &			MBER	NSTALLED					
ITE	V I			3. NU	MBER REQUIRED FOR DISPATCH					
25	EQUIPMENT/				4. REMARKS AND EXCEPTIONS					
23	FURNISHINGS									
4.	Flotation Equipment	С	1	1	As required by 14 CFR.					
5.	Emergency Locator Transmitter (ELT)									
A) ***	Survival Type ELTs	D	- Any in excess of those required by 14 CFR may be inoperative or missing.							
B) ***	Fixed ELTs	А	-	0	(M) May be inoperative provided: a) System is deactivated, and b) Repairs are made within 90 days.					
		А	-	0	May be missing provided repairs are made within 90 days.					
		D	-	-	(M) Any in excess of those required by 14 CFR may be inoperative provided system is deactivated.					
		D	-	-	Any in excess of those required by 14 CFR may be missing.					
6.	Non-Essential Equipment & Furnishings (NEF)		-	0	May be inoperative, damaged, or missing provided that the item(s) is deferred in accordance with the operator's NEF deferral program. The NEF program, procedures, and processes are outlined in the operators (insert name) Manual. (M) and (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document. NOTE: Exterior Lavatory Door Ash Trays are not considered NEF Items.					

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AIRCRAFT: TWIN COMMANDER AIRCRAFT REVISION NO: 7 PAGE NO 680T/680V/680W/681/690/690A										
					DATE: 09/09/2009 25-4					
690B/690C/690D/695/695A/695B DATE: 09/09/2009 25-4 1. SYSTEM, REPAIR CATEGORY										
	UENCE NUMBERS &	KEFA			NSTALLED					
ITEN			2.110		MBER REQUIRED FOR DISPATCH					
	•			0.110	4. REMARKS AND EXCEPTIONS					
25	EQUIPMENT/									
20	FURNISHINGS									
7.	Emergency Medical									
	Equipment									
A)	Automatic External	Α	-	0	(O) May be incomplete, missing or					
	Defibrillator (AED)				inoperative provided:					
	And/Or Associated				a) AED is resealed in a manner that will identify it as a Unit that					
	Equipment				cannot be mistaken for a fully					
					serviceable Unit, and					
					b) Repairs or replacements are					
					made within three flight cycles.					
					o ,					
		D	-	-	Any in excess of those required by 14					
					CFR may be incomplete, missing, or					
					inoperative.					
D)	Emorgonov Madical Vit	^			(O) May be incomplete missing as					
B)	Emergency Medical Kit	Α	-	0	(O) May be incomplete, missing or					
	(EMK) And/Or Associated Equipment				inoperative provided: a) EMK is resealed in a manner					
	Associated Equipment				that will identify it as a Unit that					
					cannot be mistaken for a fully					
					serviceable Unit, and					
					b) Repairs or replacements are					
					made within three flight cycles.					
		D	-	-	Any in excess of those required by 14					
					CFR may be incomplete, missing, or					
					inoperative.					
					(Continued)					
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	690B/690C/690	D/695/6	895A/69	5B		DATE: 09/09/2009	25-5	
1. SY	′STEM,	REPA	IR CAT	EGOR'	Y			
	UENCE NUMBERS &		2. NU	MBER I				
ITEM				3. NU		R REQUIRED FOR DISI		
					4. R	EMARKS AND EXCEP	TIONS	
25	EQUIPMENT/ FURNISHINGS							
7.	Emergency Medical Equipment (Continued)							
C)	First Aid Kit (FAK) And/Or Associated Equipment	A	-	-	ČFR Kits inop	If more than one is required, only one of the required may be incomplete, misterative provided: a) FAK is resealed in a that will identify it as can not be mistaken serviceable Unit, and o) Repairs or replacem made within three flights.	ed First Aid ssing or manner a Unit that for a fully dents are	
		D	-	-	CFR	in excess of those requ may be incomplete, mi erative.		
8.	Cargo Restraint Systems	С	-	-	prov limit App Carç	May be inoperative or mided acceptable cargo less from an approved sour roved Cargo Loading Mago Handling Manual, or ance Document are obse	oading rce, i.e., an anual, Weight and	
		С	-	-	_	be inoperative or missingo Compartment remain	• .	

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MASTER MINIMUM EQUIPMENT LIST										
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AIRCRAFT: TWIN COMMANDER AIRCRAFT REVISION NO: 7 PAGE NO:										
680T/680V/680W/681/690/690A 690B/690C/690D/695/695A/695B DATE: 09/09/2009 26-1										
				,	DATE: 09/09/2009	26-1				
1. SYSTEM,	REPA		EGORY		LLED					
SEQUENCE NUMBERS &		2. NU	MBER II			DATCH				
I I CIVI			3. NUN		REQUIRED FOR DISEMARKS AND EXCEP					
OO FIRE PROTECTION				4. K	EIVIARNO AIND EXCEP	TIONS				
26 FIRE PROTECTION										
1. Portable Fire Extinguisher	D	-	-	CFR provi	in excess of those required may be inoperative or ided: The inoperative Fire Extinguisher is tagger INOPERATIVE, remuthe installed location placed out of sight some be mistaken for a furure Unit, and Required distribution maintained.	ed oved from and o it cannot nctional				

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FEDERAL AVIATION ADMINISTRATION										
AIRCRAFT: TWIN COMMANDER AIRCRAFT REVISION NO: 6 PAGE NO:										
680T/680V/680W/681/690/690A										
690B/690C/690D/695/695A/695B DATE: 03/31/2003 27-1										
1. SYSTE	•	REPA	IR CAT							
	CE NUMBERS &		2. NUI	MBER I						
ITEM				3. NUI		REQUIRED FOR DISE				
					4. RE	MARKS AND EXCEP	HONS			
27 FLIG	HT CONTROLS									
	Tab Indicators der, Aileron, And ator)	С	3	0	a b	be inoperative provided) Tab is visually check range of operation,) Tab operation is not and) Tab is positioned to prior to each departunce NEUTRAL position is visual inspection.	impaired, NEUTRAL ure and			
2. Flap	Position Indicator	С	1	0	a	be inoperative provided) Flaps are visually ch full travel and Flap o not affected, and) Flaps are fully RETR before takeoff.	ecked for peration is			
3. Elect	ric Elevator Trim	С	1	0	Manı	May be inoperative provual Trim is operative an FFECTED.				

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AIR	CRAFT: TWIN COMMAI	NDER A	AIRCRA	FT		REVISION NO: 6	PAGE NO
	680T/680V/680	W/681/	690/690	DΑ			
	690B/690C/690	D/695/6	895A/69	5B		DATE: 03/31/2003	28-1
1. S	YSTEM,	REPA	IR CAT	EGOR\	1	<u> </u>	
SEC	QUENCE NUMBERS &		2. NU	MBER I	NSTA	ALLED	
ITE	M			3. NUI	MBEF	R REQUIRED FOR DISF	PATCH
					4. R	EMARKS AND EXCEPT	TIONS
28	FUEL						
1.	Electric Fuel Boost Pumps	С	2	0	inop	or both Fuel Boost Pumerative in accordance watations.	
2.	Low Fuel Scavenge System	С	2	0	inop	n left and right Systems in erative in accordance work tations.	

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	690B/690C/690	D/695/6	895A/69	5B	DATE: 04/16/1996 30-1					
	YSTEM,	REPA	IR CAT							
SEC	UENCE NUMBERS &		2. NU	-	INSTALLED IMBER REQUIRED FOR DISPATCH					
116	VI			3. NO	4. REMARKS AND EXCEPTIONS					
30	ICE & RAIN									
	PROTECTION									
1.	Surface Deice System (Wing, Vertical, And Horizontal Stabilizer)	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
2.	Propeller Deicing Systems	С	2	May be inoperative provided flight is not operated in known or forecast icing conditions.						
3.	Heated Stall Warning Lift Detector	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
4.	Heated Fuel Vents	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
5.	Windshield Alcohol Deice System	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
6.	Heated Windshield	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
7.	Windshield Defroster Blower	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					
8.	Windshield Wipers	С	1	0	May be inoperative provided aircraft is not operated in precipitation within 5 nautical miles of the airport of takeoff or intended landing.					
9.	Rudder Horn And Trim Tab Anti-Ice System	С	1	0	May be inoperative provided flight is not operated in known or forecast icing conditions.					

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	YSTEM,		IR CAT	EGOR'	(
SEC	UENCE NUMBERS &		2. NU		NSTALLED
	VI			3. NU	MBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
30	ICE & RAIN PROTECTION				
10.	Pitot Heater	В	2	0	May be inoperative provided: a) Passengers are not carried under IFR, and b) Aircraft is not operated in known or forecast icing conditions.
			NOTE: Two heated Pitot Tubes are required for these conditions if a second Airspeed Indicator is installed and operative.		
11.	Engine Inlet Anti-Ice Systems	С	2	0	May be inoperative provided flight is not operated in known or forecast icing conditions.
12.	Generator Inlet Deicer Installation	С	2	0	May be inoperative provided flight is not operated under IFR in known or forecast icing conditions.
13.	Pitot Heat Indicating Systems (Not Required By The Certification Or Operating Rules)	С	-	0	May be inoperative provided: a) All other Elements of the Pitot Heat System operate normally, and b) The airplane is not operated into known or forecast icing conditions.

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	680T/680V/680								
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	YSTEM,	REPA	IR CAT						
ITE	QUENCE NUMBERS &		2. NUI		NSTALLED MBER REQUIRED FOR DISPA	TCH			
11.	VI			J. 110	4. REMARKS AND EXCEPTION				
31	INDICATING/ RECORDING SYSTEMS				THE WAR THE ENGLY THE				
1.	Clock With Sweep Second Hand Or Electric Digital Clock	С	1	0	May be inoperative under VFR conditions.				
2.	Flight Hour Recorder	С	1	0	(O)				
3.	Flight Data Recorder (FDR) System	С	-	-	Any in excess of those required CFR may be inoperative.	d by 14			
		A	-	0	 May be inoperative provided: a) Cockpit Voice Recorde operates normally, b) Airplane is not dispatch a designated airport as the operator's MEL unled. 1. The FDR failure occupushback but prior takeoff, or 2. The FDR repair was attempted but was a successful. c) In those cases where reattempted but not succest the aircraft may be dispon a flight or series of fluntil the next designate where repair must be accomplished prior to dand d) Repairs are made within flight days. (Continued) 	ned from listed in ess: curs after to s not epair is essful, batched lights ed airport lispatch,			

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AIN	680T/680V/680				REVISION NO. 7 PAGE NO.			
	690B/690C/690				DATE: 09/09/2009 31-2			
1. SYSTEM,			IR CAT		I I			
SEQUENCE NUMBERS & ITEM			2. NU	INSTALLED				
				3. NU	JMBER REQUIRED FOR DISPATCH			
			1		4. REMARKS AND EXCEPTIONS			
31	INDICATING/ RECORDING SYSTEMS							
3.	Flight Data Recorder (FDR) System (Continued)							
A)	For Air Carrier And Commercial Operators							
1)	FDR Recording Parameters Required By 14 CFR	А	-	-	May be inoperative provided: a) Cockpit Voice Recorder (CVR) operates normally, and b) Repairs are made within 20 calendar days.			
2)	FDR Recording Parameters Not Required By 14 CFR	A	-	-	May be inoperative provided repairs are made prior to completion of the next heavy maintenance check.			
B)	Operators Other Than Holders Of Air Carrier Or Commercial Operator Certificates	С	-	1	Any in excess of those required by 14 CFR may be inoperative.			
		А	-	0	May be inoperative provided repairs are made in accordance with applicable sections of 14 CFR.			

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AIRCRAFT: TWIN COMMAN	NDER AIRCRAFT				REVISION NO: 5c	PAGE NO:			
680T/680V/680									
690B/690C/690I	D/695/6	95A/69	5B		DATE: 04/16/1996	32-1			
1. SYSTEM,	REPAIR CATEGORY								
SEQUENCE NUMBERS &		2. NUI	MBER I	NSTA	LLED				
ITEM	3. NUMBE				R REQUIRED FOR DISPATCH				
				4. R	EMARKS AND EXCEP	TIONS			
32 LANDING GEAR									
Parking Brake	С	1	0	(O)					
_									

U.S. DEPARTMEN	IT OF TRAN	ISPOR	TATIO	١					
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION									
AIRCRAFT: TWI	N COMMAN	IDER A	REVISION NO: 7 PAGE NO:						
		690/690		DATE: 00/00/2000 33.1					
1. SYSTEM,	3/690C/690E				DATE: 09/09/2009 33-1				
SEQUENCE NUM	BERS &	REPAIR CATEGORY 2. NUMBER INSTALLED							
ITEM				3. NU	MBER REQUIRED FOR DISPATCH				
					4. REMARKS AND EXCEPTIONS				
33 LIGHTS									
Cockpit/ Flight Flight Compa And Instrume Lighting Syst	ent ent	С	_	_	Individual Lights may be inoperative provided remaining Lights are: a) Sufficient to clearly illuminate all required instruments, controls, and other devices for which it is provided, b) Positioned so that direct rays are shielded from flight crewmembers eyes, and c) Lighting configuration and intensity is acceptable to the flight crew.				
2. Cabin Lights		С	-	-	May be inoperative provided lighting configuration is acceptable to the flight crew.				
3. Passenger Li Information S	•	С	-	-	(O) May be inoperative and associated Passenger Seat may be occupied provided: a) PA System operates normally, and b) PA System is used to notify passengers when associated Sign(s) are placed ON or OFF.				
A) For 14 CFR 9 Operations A Operations N Requiring Us System	nd ot	С	-	-	(O) May be inoperative provided alternate procedures are established and used to notify cabin occupants.				
4. Anti-Collision Light System		В	1	0	May be inoperative for day operations.				
5. Strobe Light	System	С	1	0					
6. Landing Ligh	ts	С	2	0	May be inoperative for day operations.				

U.S.	U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST						
FEDERAL AVIATION ADMINISTRATION							
	CRAFT: TWIN COMMAN	NDER A	IRCRA		REVISION NO: 7 PAGE NO:		
	680T/680V/680				DATE: 09/09/2009 33-2		
1. S	690B/690C/690I YSTEM,			EGOR\	l l		
	UENCE NUMBERS &				NSTALLED		
ITEN	Л			3. NU	MBER REQUIRED FOR DISPATCH		
					4. REMARKS AND EXCEPTIONS		
33	LIGHTS						
7.	Position Lights	С	3	0	May be inoperative for day operations.		
8.	Taxi Light	С	2	0			
9.	Logo Light	С	2	0			
10.	Wing Ice Lights	С	-	0	May be inoperative provided aircraft is not operated in known or forecast icing conditions at night.		
		С	-	0	May be inoperative provided: a) Aircraft is equipped with an approved Ice Detection System, and b) Ground deicing procedures do not require use of Wing Ice Lights.		
		С	2	1	One may be inoperative provided: a) Left Light is operative for single pilot operations, and b) Ground deicing procedures do not require use of Wing Ice Lights.		

U.S.	DEPARTMENT OF TRAIN	U.S. DEPARTMENT OF TRANSPORTATION						
FFD	ERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQUIPMENT LIST			
AIRCRAFT: TWIN COMMANDER AIRCRAFT 680T/680V/680W/681/690/690A					REVISION NO: 6 PAGE NO:			
	690B/690C/690				DATE: 03/31/2003 34-1			
	YSTEM,	REPA	IR CAT					
SEG	QUENCE NUMBERS &		2. NU		NSTALLED MBER REQUIRED FOR DISPATCH			
	VI			3. NU	4. REMARKS AND EXCEPTIONS			
34	NAVIGATION				1. KEWIKKO KKO KKO EXOLI HORO			
	10.010.010							
1.	Altimeters, Adjustable For Barometric Pressure	В	2	1	May be inoperative on right side provided SIC is not required.			
					NOTE: Where a Servoed Electric Altimeter or Electronic Flight Instrument System (EFIS) is installed, a functioning Pneumatic Indicator is required.			
2.	Airspeed Indicators	В	2	1	May be inoperative on right side provided SIC is not required.			
					NOTE: Where a Servoed Electric Airspeed Indicator or EFIS is installed, a functioning Pneumatic Indicator is required.			
3.	Gyroscopic Pitch And Bank Indicator Systems	В	2	1	May be inoperative on right side provided SIC is not required.			
4.	Gyroscopic Rate Of Turn/Slip Skid Indicators	В	2	0	Must be operative on left side for IFR, passenger carrying VFR over the top, and passenger carrying VFR night flights.			
		В	2	0	Rate Of Turn Indicator may be inoperative provided aircraft has three operative Attitude Instrument Systems installed.			
		В	2	1	May be inoperative on right side provided SIC is not required.			
5.	Gyroscopic Directional Indicator Systems	В	2	1	May be inoperative on right side provided SIC is not required.			

U.S.	U.S. DEPARTMENT OF TRANSPORTATION							
FFD	ERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQUIPMENT LIST			
AIRCRAFT: TWIN COMMANDER AIRCRAFT 680T/680V/680W/681/690/690A					REVISION NO: 7 PAGE NO:			
	690B/690C/690	D/695/6	95A/69	5B	DATE: 09/09/2009 34-2			
	YSTEM,	REPA	IR CAT					
SEC	UENCE NUMBERS &		2. NU		NSTALLED MBER REQUIRED FOR DISPATCH			
	VI			3. 110	4. REMARKS AND EXCEPTIONS			
34	NAVIGATION							
6.	Vertical Speed Indicators.	В	2	0	Must be operative on left side for IFR passenger carrying operations.			
7.	ATC Transponders And Automatic Altitude Reporting Systems	В	-	0	May be inoperative provided: a) Operations do not require its use, and b) Prior to flight, approval is obtained from ATC facilities having jurisdiction over the planned route of flight.			
		D	-	1	Any in excess of those required by 14 CFR may be inoperative.			
A)	Elementary And Enhanced Downlink Aircraft Reportable Parameters Not Required By 14 CFR	А	-	0	May be inoperative provided: a) Operations do not require its use, and b) Repairs are made prior to completion of the next heavy maintenance visit.			
В)	ADS-B Squitter Transmissions	A	-	0	May be inoperative provided: a) Operations do not require its use, and b) Repairs are made prior to completion of the next heavy maintenance visit.			
8.	Mach Warning Horn	С	1	0	As required by 14 CFR.			
9.	Navigation Equipment (VOR/ILS, LORAN, RNAV, VLF/OMEGA, INS, DOPPLER, GPS, MLS, FMS)	С	-	-	As required by 14 CFR.			
10.	Weather Radar/ Thunderstorm Detection Equipment	С	1	0	As required by 14 CFR.			

U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST						
FED	ERAL AVIATION ADMINI	STRAT	ION		MAGTER MINIMON EQUI MENT EIGT	
AIR	CRAFT: TWIN COMMAI 680T/680V/680)W/681/	690/690	DΑ	REVISION NO: 7 PAGE NO:	
4 0	690B/690C/690				DATE: 09/09/2009 34-3	
	YSTEM, UENCE NUMBERS &	REPA	IR CAT		Y INSTALLED	
ITEN			2. NO		MBER REQUIRED FOR DISPATCH	
	(1			3.140	4. REMARKS AND EXCEPTIONS	
34	NAVIGATION					
11.	Marker Beacon	С	1	0	May be inoperative provided approach procedure does not require its use.	
12.	Flight Director	С	1	0		
13.	Radar Altimeter	С	1	0		
14.	Altitude Encoder				DELETED, REVISION 6. COMBINED WITH ITEM 7.	
15.	Distance Measuring Equipment (DME) Systems	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
16.	Standby Attitude Indicator	С	-	0	May be inoperative provided not required by 14 CFR.	
		В	-	0	May be inoperative provided: a) Operations are conducted in day VMC only, and b) Operations are not conducted into known or forecast over-thetop conditions.	
17.	Automatic Direction Finder (ADF)	С	-	0	As required by 14 CFR.	
18.	Radio Magnetic Indicator (RMI)	С	-	0		
19.	Non-Stabilized Magnetic Compass	В	1	0	(O) May be inoperative provided any combination of three Gyro or INS (IRU) Stabilized Compass Systems are operative.	
					(Continued)	

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MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION							
AIRCRAFT: TWIN COMMA	NDER A	IRCRA		REVISION NO: 7	PAGE NO:		
680T/680V/680				DATE: 00/00/0000	04.4		
690B/690C/690 1. SYSTEM,			EGOR)	DATE: 09/09/2009	34-4		
SEQUENCE NUMBERS &	INEL A			NSTALLED			
ITEM				MBER REQUIRED FOR DISF	PATCH		
				4. REMARKS AND EXCEPT	TIONS		
34 NAVIGATION							
19. Non-Stabilized							
Magnetic Compass							
(Continued)							
			_	,_,_,			
	В	1	0	(O) May be inoperative provi a) Any combination of to			
				INS Stabilized Comp			
				Systems are operative			
				b) Aircraft is operated w	ith dual		
				independent navigati			
				capability and under radar control by ATC			
				enroute portion of the			
				ornoute pertion of the	,g		
	В	1	0	(O) May be inoperative for fl			
				are entirely within areas of n			
				unreliability provided at least stabilized Directional Gyro S			
				installed, operative, and use			
				conjunction with approved F			
				navigation techniques.	·		

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					MASTER MINIMUM EQUIPMENT LIST	Τ		
FEDERAL AVIATION ADMINISTRATION								
AIR	CRAFT: TWIN COMMAN				REVISION NO: 7 PAGE NO:			
	680T/680V/680				5.4 5.4			
4 0		DD/695/695A/695B DATE: 09/09/2009 34-5						
	YSTEM,	REPA	IR CAT					
	UENCE NUMBERS &		2. NUI		NSTALLED			
ITEN	И			3. NU	MBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS			
			<u> </u>		4. REMARKS AND EXCEPTIONS	_		
34	NAVIGATION							
00	T							
20.	Terrain Awareness							
	And Warning System							
	(TAWS)							
A)	Class A TAWS							
	Equipment Required							
	Equipment (toquired							
1)	Ground Proximity	Α	1	0	(O) May be inoperative provided:			
,	Warning System				a) Alternate procedures are			
	(GPWS)				established and used, and			
	,				b) Repairs are made within two			
					flight days.			
a)	Modes 1-4	Α	4	0	(O) May be inoperative provided:			
					a) Alternate procedures are			
					established and used, and			
					b) Repairs are made within two			
					flight days.			
F/	Toot Modo	_	4	_	May be incorporative provided:			
b)	Test Mode	Α	1	0	May be inoperative provided: a) GPWS is considered			
					inoperative, and			
					b) Repairs are made within two			
					flight days.			
					ingili days.			
c)	Glideslope Deviation(s)	С	_	1				
	(Mode 5)			•				
	\/							
		В	-	0				
					(Continued)			

U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST							
FEDERAL AVIATION ADMINISTRATION AIRCRAFT: TWIN COMMANDER AIRCRAFT 680T/680V/680W/681/690/690A						REVISION NO: 7	PAGE NO:
	0B/690C/690D/6					DATE: 09/09/2009	34-6
1. SYSTEM, SEQUENCE NU		REPA	IR CAT			LLED	
ITEM	MBERS &		Z. NUI	MBER I		REQUIRED FOR DISF	PATCH
				0.110		EMARKS AND EXCEP	
34 NAVIGATI	ON						
A) Class A TA Equipment (Continued							
1) Ground Pro Warning St (GPWS) (C	ystem						
d) Advisory C	allouts	В	-	0	alter	May be inoperative prov nate procedures are est used.	
		С	-	0	É	May be inoperative prov a) Advisory Callouts no by 14 CFR, and b) Alternate procedures established and used	t required s are
e) Windshear *** (Reactive)	Mode	В	1	0	alter	May be inoperative prov nate procedures are est used.	
					NOT	E: Operator's alternate procedures should in reviewing windsheat avoidance and wind recovery procedures	nclude r shear
		С	1	0	É	May be inoperative prov Alternate procedures established and used Windshear Detection Avoidance System (Formally)	are d, and and
						(Continued)	

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AIRCRAFT: TWIN COMMANDER AIRCRAFT						REVISION NO: 7	PAGE NO:
	680T/680V/680						
	690B/690C/690					DATE: 09/09/2009	34-7
	YSTEM,	REPA	IR CAT			- FD	
ITEN	NUENCE NUMBERS &		2. NUI		NSTALL	LED REQUIRED FOR DISF	PATCH
'' -	VI			3. 110		MARKS AND EXCEPT	
34	NAVIGATION						
	10/11/0/11/011						
A)	Class A TAWS Equipment Required (Continued)						
2)	Terrain System- Forward Looking Terrain Avoidance (FLTA) And Premature Descent Alert (PDA) Functions	В	1	0	` '	y be inoperative provi te procedures are est ed.	
3)	Terrain Displays	С	-	1			
		В	-	0			
4)	Runway Awareness And Advisory System (RAAS)	С	1	0			
В)	Class B TAWS Equipment Required						
1)	Ground Proximity Warning System (GPWS)	А	1	0	a)	y be inoperative provi Alternate procedures established and used Repairs are made wit flight days.	are I, and
a)	Modes 1 & 3	A	2	0	a)	y be inoperative provi Alternate procedures established and used Repairs are made wit flight days.	are I, and
						(Continued)	

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FEDERAL AVIATION ADMINISTRATION AIRCRAFT: TWIN COMMANDER AIRCRAFT REVISION NO: 7 PAGE NO							
/ (11 (680T/680V/680				TREVIOLOTIVO. 7		
	690B/690C/690				DATE: 09/09/2009 34-8		
	YSTEM,	REPA	IR CAT				
	UENCE NUMBERS &		2. NU		NSTALLED		
ITEN	VI			3. NU	MBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS		
34	NAVIGATION				4. KEWAKKO AND EXCELLIONS		
34	NAVIGATION						
В)	Class B TAWS Equipment Required (Continued)						
1)	Ground Proximity Warning System (GPWS) (Continued)						
b)	Test Mode	А	1	0	May be inoperative provided: a) GPWS is considered inoperative, and b) Repairs are made within two flight days.		
c) ***	Modes 2, 4 & 5	С	3	0			
d)	Advisory Callouts	В	-	0	(O) May be inoperative provided alternate procedures are established and used.		
		С	-	0	(O) May be inoperative provided: a) Advisory Callouts not required by 14 CFR, and b) Alternate procedures are established and used.		
e) ***	Windshear Mode (Reactive)	С	1	0	(O) May be inoperative provided alternate procedures are established and used.		
					(Continued)		

U.S.	U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST						
FED	ERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQU	IPMENT LIST	
	CRAFT: TWIN COMMAN		REVISION NO: 7	PAGE NO:			
	680T/680V/680				5.17 		
4 0	690B/690C/690				DATE: 09/09/2009	34-9	
	YSTEM, QUENCE NUMBERS &	KEPA	IR CAT		<u>r</u> NSTALLED		
ITEN			2. 1101		MBER REQUIRED FOR DISF	PATCH	
				0.110	4. REMARKS AND EXCEPT		
34	NAVIGATION						
B)	Class B TAWS						
	Equipment Required						
	(Continued)						
2)	Terrain System-	В	1	0			
	Forward Looking		'	O			
	Terrain Avoidance						
	(FLTA) And Premature						
	Descent Alert (PDA)						
	Functions						
3)	Terrain Displays	С	_	0			
***	Torrain Biopiayo			O			
4)	Runway Awareness &	С	1	0			
***	Advisory System						
	(RAAS)						
C)	Class C TAWS						
0,	Equipment						
	- 4ko						
1)	TAWS/GPWS	С	1	0	(O) May be inoperative prov		
***					alternate procedures are est	ablished	
					and used.		
					NOTE: Any Mode that opera	ates	
					normally may be use		

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FED	ERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQUIPMENT LIST
	CRAFT: TWIN COMMAI 680T/680V/680	NDER A	REVISION NO: 7 PAGE NO:		
	690B/690C/690				DATE: 09/09/2009 34-10
	YSTEM,	REPA	IR CAT		
	UENCE NUMBERS &		2. NU		INSTALLED
ITEN	/I			3. NU	MBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
34	NAVIGATION	<u> </u>			4. KLIMAKKO AND EXCELLIONO
54	11/10/11/014				
21.	Traffic Alert And Collision Avoidance System (TCAS I)	В	-	0	 (M) May be inoperative provided: a) System is deactivated and SECURED, and b) Enroute or approach procedures do not require its use.
		С	-	0	 (M) May be inoperative provided: a) Not required by 14 CFR, b) System is deactivated and SECURED, and c) Enroute or approach procedures do not require its use.
22.	Traffic Alert And Collision Avoidance System (TCAS II)	В	-	0	 (M) May be inoperative provided: a) System is deactivated and secured, and b) Enroute or approach procedures do not require its use.
		С	-	0	 (M) May be inoperative provided: a) Not required by 14 CFR, b) System is deactivated and secured, and c) Enroute or approach procedures do not require its use.
A)	Combined Traffic Alert (TA) And Resolution Advisory (RA) Dual Display System(s)	С	2	1	May be inoperative on the non-flying pilot side provided: a) TA and RA Visual Display is operative on the flying pilot side, and b) TA and RA Audio Function is operative on flying pilot side. (Continued)

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FFC	ERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQUIPMENT LIST	
AIRCRAFT: TWIN COMMANDER AIRCRAFT REVISION NO: 7 PAGE 680T/680V/680W/681/690/690A						
690B/690C/690D/695/695A/695B DATE: 09/09/2009 34-11						
	YSTEM,	REPA		EGOR'		
SEC	UENCE NUMBERS &		2. NU		INSTALLED MBER REQUIRED FOR DISPATCH	
116	/I			3. NU	4. REMARKS AND EXCEPTIONS	
34	NAVIGATION				I REMARKS AND EXCELLING	
22.	Traffic Alert And Collision Avoidance System (TCAS II) (Continued)					
В)	Resolution Advisory (RA) Display System(s)	С	2	1	May be inoperative on non-flying pilot side.	
		С	-	0	 (O) May be inoperative provided: a) Traffic Alert (TA) Visual Display and Audio Functions are operative, b) TA ONLY Mode is selected by the crew, and c) Enroute or approach procedures do not require its use. 	
C)	Traffic Alert (TA) Display System(s)	С	-	0	(O) May be inoperative provided: a) RA Visual Display and Audio Functions are operative, and b) Enroute or approach procedures do not require its use.	
D)	Audio Functions	В	1	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.	
E) ***	Airspace Selection Function	С	-	0		
23.	Flight Profile Advisory System (FPAS)	D	1	0		
24. ***	Peripheral Indexer System	D	1	0		

11.0	U.S. DEPARTMENT OF TRANSPORTATION										
0.5.	MASTER MINIMUM EQUIPMENT LIST										
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1 0	690B/690C/690				·/	DATE: 09/09/2009	34-12				
1	YSTEM, QUENCE NUMBERS &	KEPA	IR CAT	MBER I		ULED.					
ITEN			2. 140			R REQUIRED FOR DIS	PATCH				
						EMARKS AND EXCEP					
34	NAVIGATION										
25.	Flight Management System										
A)	Navigation Databases	С	-	-	 (O) May be out of currency provided: a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch, b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight, and c) Approach Navigation Radios are manually tuned and identified. 						
26.	Navigation Management System										
A)	Navigation Databases	С	-	-	t t	May be inoperative proval Current Aeronautica used to verify Naviga prior to dispatch, b) Procedures are estated used to verify status suitability of Navigat Facilities used to defight, and c) Approach Navigation are manually tuned a identified.	I Charts are ation Fixes blished and and ion fine route of				
27.	Traffic Collision Avoidance Device (TCAD)	D	1	0							

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AIR	CRAFT: TWIN COMMAN 680T/680V/680		_		REVISION NO: 7 PAGE NO:						
	690B/690C/690				DATE: 09/09/2009 34-13						
	YSTEM,	REPA	IR CAT								
	UENCE NUMBERS &		2. NUI		INSTALLED						
ITEN	/I			3. NU	JMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS						
34	NAVIGATION				4. REMINING AND EXCELLIBERA						
28.	Automatic Dependent Surveillance Broadcast (ADS-B) System	D	-	0	May be inoperative provided it is not required by 14 CFR.						
				NOTE: If ADS-B is installed in lieu of or as replacement for 14 CFR required equipment, the repair category in the operator's MEL will be the same as that of the 14 CFR required equipment.							
A)	Link And Display Processor Unit (LDPU)	D	-	- 0							
					NOTE: Cockpit Display Traffic Information (CDTI) display of data from other aircraft systems may be used.						
B)	Cockpit Display And Traffic Information (CDTI)	D	-	0							
					NOTE: ADS-B data transmissions may continue.						
C)	CDTI Control Panel	D	-	0	May be inoperative provided: a) Flight ID can be set, and b) Screen Display is acceptable to the flight crew.						
D)	Data Link Transmitter(s)	D	-	0							
E)	Data Link Receiver(s)	D	-	0							

U.S	U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM FOLUPMENT LIST										
FED	DERAL AVIATION ADMINI	STRAT	ION		MASTER MINIMUM EQUIPMENT LIST						
	CRAFT: TWIN COMMAN 680T/680V/680	NDER A	AIRCRA		REVISION NO: 7 PAGE NO:						
	690B/690C/690		DATE: 09/09/2009 34-14								
	YSTEM,	REPA	IR CAT								
ITE	QUENCE NUMBERS &		2. NU		MRED DECLUDED FOR DISPATCH						
	VI			3. NU	MBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS						
34	NAVIGATION		<u> </u>		4. KEWAKKO AND EXCELLIONS						
54	14/10/11/014										
29.	Electronic Flight Instrument System (EFIS) Display Tubes Installed In Accordance With STC No. SA01627CH	A	2	1	One Tube may be inoperative for one flight day provided: a) Reversionary Mode can be selected and data from the inoperative Tube can be displayed on the operative Display Tube, and b) Flight is conducted under day VMC conditions.						
30.	Engine Instrument Display System (EIDS) Display Tubes Installed In Accordance With STC No. SA01626CH	В	2	1	One Tube may be inoperative provided: a) Reversionary mode can be selected and data from the inoperative Tube can be displayed on the operative Display Tube, and b) Flight is conducted under day VMC conditions.						
31.	Altitude Alerting System	A	-	0	 (O) May be inoperative provided: a) Autopilot with Altitude Hold is operative, b) Enroute operations do not require its use, and c) Repairs are made within three flight days. NOTE: RVSM is affected. 						
		Α	-	0	(O) May be inoperative provided: a) Aircraft is operated with a Second in Command, b) Enroute operations do not require its use, and c) Repairs are made within three flight days. NOTE: RVSM is affected.						

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	/IATION ADMINI								
AIRCRAFT:	TWIN COMMAN 680T/680V/680		_			REVISION NO: 7	PAGE NO:		
	690B/690C/690I					DATE: 09/09/2009	34-15		
1. SYSTEM,			IR CAT	EGOR'					
SEQUENCE	NUMBERS &		2. NUI	MBER I			DATOLL		
I I ⊏IVI				3. NU		R REQUIRED FOR DISI EMARKS AND EXCEP			
34 NAVIGA	ATION				1.10	ENTRICT THE EXCEL	110110		
Guidan	ear Detection, ce And nce System								
A) Installat By 14 C	ion Required FR								
** [*] And Flig	ear Warning ght Guidance (Reactive)	В	-	0	alter	May be inoperative prov nate procedures are es used.			
					NOTE: Operator's alternate procedures should include reviewing windshear avoidance and windshear recovery procedure.				
		С	-	0	` ´a	May be inoperative prov a) Alternate procedures established and use b) Windshear Detection Avoidance System (I operates normally.	s are d, and n and		
,	ear Detection bidance System ive)	В	-	0	alter	May be inoperative prov nate procedures are es used.			
					NOT	E: Operator's alternate procedures should i reviewing windshea avoidance and wind recovery procedure:	nclude r Ishear		
						(Continued)			

U.S.	U.S. DEPARTMENT OF TRANSPORTATION									
EED	ERAL AVIATION ADMINI	STDAT	ION		MASTER MINIMUM EQUIPMENT LIST					
	CRAFT: TWIN COMMAN			.FT	REVISION NO: 7 PAGE NO:					
	680T/680V/680									
	690B/690C/690				DATE: 09/09/2009 34-16					
	YSTEM,	REPA	REPAIR CATEGORY							
ITEN	UENCE NUMBERS &		2. NU		NSTALLED MBER REQUIRED FOR DISPATCH					
116	VI			3. 110	4. REMARKS AND EXCEPTIONS					
34	NAVIGATION				I I I I I I I I I I I I I I I I I I I					
•	10/11/0/11/011									
32.	Windshear Detection,									
	Guidance And									
	Avoidance System (Continued)									
	(Continued)									
2)	Windshear Detection									
***	And Avoidance System									
	(Predictive)									
	(Continued)									
		С	_	0	(O) May be inoperative provided:					
					a) Alternate procedures are					
					established and used, and					
					b) Windshear Warning and Flight					
					Guidance System (Reactive) operates normally.					
					operates normally.					
B)	Installation Not									
	Required By 14 CFR									
4)	Windshoor Warning			_	(O) May be inconcretive provided					
1)	Windshear Warning And Flight Guidance	С	-	0	(O) May be inoperative provided alternate procedures are established					
	System (Reactive)				and used.					
	-,									
2)	Windshear Detection	С	-	0	(O) May be inoperative provided					
***	And Avoidance System				alternate procedures are established					
	(Predictive)				and used.					
			l	l						

U.S.	U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST									
FED	FEDERAL AVIATION ADMINISTRATION									
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690B/690C/690D/695/695A/695B DATE: 09/09/2009 35-1										
1. SYSTEM, REPAIR CATEGORY										
SEQUENCE NUMBERS & 2. NUMBER INSTALLED										
ITEM 3. NUMBE					MBER	REQUIRED FOR DISF	PATCH			
					4. R	EMARKS AND EXCEPT	TONS			
35	OXYGEN									
1.	Oxygen System (Passengers)	С	1	0	As required by 14 CFR.					
2.	Protective Breathing Equipment (PBE)	ective Breathing D - Any in excess of those required by 14								

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FEDERAL AVIATION ADMINI AIRCRAFT: TWIN COMMAN	REVISION NO: 7	PAGE NO:					
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1. SYSTEM, SEQUENCE NUMBERS &	REPA		EGORY MBER INSTALLED				
ITEM	3. NUMBER				BER REQUIRED FOR DISPATCH		
38 WATER/WASTE				4. R	EMARKS AND EXCEPT	IONS	
Portable Lavatory System	С	-	0	t í	May be inoperative provi a) Associated Compone deactivated or isolate b) System Components verified not to have le c) System is placarded USE".	ents are ed, are eaks, and	

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FEDERAL AVIATION ADMIN	ISTRAT	ION		MASTER MINIMUM EQUIPMENT LIST						
AIRCRAFT: TWIN COMMA	NDER A	AIRCRA		REVISION NO: 7 PAGE NO:						
680T/680V/680 690B/690C/690		DATE: 09/09/2009 46-1								
1. SYSTEM,		IR CAT	EGOR'							
SEQUENCE NUMBERS & ITEM		2. NU		INSTALLED MBER REQUIRED FOR DISPATCH						
TT LIVI			3. 110	4. REMARKS AND EXCEPTIONS						
46 INFORMATION SYSTEMS										
Electronic Flight Bag Systems (EFBs)										
A) Class 3 EFBs	С	C - (O) May be inoperative provided alternate procedures are establish and used.								
				NOTE: Any function, program or document which operates normally may be used.						
	D	-	0	May be inoperative provided procedures do not require its use.						
B) Data Connectivity *** (Class 2)	С	-	-	(O) May be inoperative provided alternate procedures are established and used.						
	D	-	0	May be inoperative provided procedures do not require its use.						
C) Power Connection *** (Class 1 & 2)	С	-	-	(O) May be inoperative provided alternate procedures are established and used.						
	D	-	0	May be inoperative provided procedures do not require its use.						
D) Mounting Device *** (Class 2)	С	-	0	(M)(O) May be inoperative provided: a) The associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Alternate procedures are established and used. (Continued)						

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0.0. 521 / ((1)) 2141 01 110 (, (1101	•	MASTER MINIMUM EQUIPMENT LIS	ST					
FEDERAL AVIATION ADMIN	ISTRAT	ION								
AIRCRAFT: TWIN COMMA	NDER A	AIRCRA	.FT	REVISION NO: 7a PAGE NO):					
680T/680V/680										
690B/690C/690	1	DATE: 10/09/2009 46-2								
1. SYSTEM,	REPA									
SEQUENCE NUMBERS &		2. NU		INSTALLED						
ITEM			3. NU	MBER REQUIRED FOR DISPATCH						
10 1150514471011	1			4. REMARKS AND EXCEPTIONS	\blacksquare					
46 INFORMATION SYSTEMS										
313121013										
Electronic Flight Bag					\perp_1					
*** Systems (EFBs)					Hil					
(Continued)					∃il					
D) Mounting Device										
*** (Class 2)										
(Continued)										
	D		0	(M) May be ineperative provided:						
		_	0	(M) May be inoperative provided:a) Associated EFB and hardware						
				is secured by an alternate						
				means or removed from the						
	aircraft, and									
				b) Procedures do not require its						
				use.						

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680T/680V/680V	W/681/	690/690)A						
690B/690C/690 <u>E</u>	0/695/6	95A/69	5B		DATE: 03/31/2003	52-1			
1. SYSTEM,	REPA	IR CAT	EGOR	<u> </u>					
SEQUENCE NUMBERS &		2. NUI	MBER I	NSTA	LLED				
ITEM			3. NUI	MBEF	REQUIRED FOR DISF	PATCH			
				TONS					
52 DOORS									
1 Door Annunciator Light	С	4		Mov	ha inaparativa pravidad				
Door Annunciator Light	C	l I	0	8	be inoperative provided a) A flight crewmember by visual inspection t Doors are LATCHED each departure, and b) FASTEN SEAT BELT remains ON.	confirms hat all prior to			

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FEDERAL AVIATION ADMINI	STDAT	ION		M	ASTER MINIMUM EQU	IPMENT LIST			
AIRCRAFT: TWIN COMMAN	REVISION NO: 6	PAGE NO:							
680T/680V/680		DATE: 03/31/2003	61-1						
690B/690C/690D/695/695A/695B 1. SYSTEM, REPAIR CATEGORY					l				
SEQUENCE NUMBERS &		2. NUI			ISTALLED				
ITEM			3. NUMBER REQUIRED FOR DISPATCH						
				4. R	EMARKS AND EXCEPT	TONS			
61 PROPELLERS									
1. Propeller C 1 0 Synchrophaser System									

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FEDERAL AVIATION ADMINISTRATION									
AIR	CRAFT: TWIN COMMAN	NDER A	IRCRA	FT		REVISION NO: 5c	PAGE NO:		
680T/680V/680W/681/690/690A									
	690B/690C/690I	D/695/695A/695B				DATE: 04/16/1996	73-1		
	YSTEM,	REPA	REPA <u>IR CATEGORY</u>						
	QUENCE NUMBERS &		2. NUMBER INSTALLED						
ITEN	M			3. NUMBER REQUIRED FOR DISPATCH					
				4. REMARKS AND EXCEPTIONS					
73	ENGINE FUEL & CONTROL								
1.	Fuel Consumed Totalizer	С	1	0					